

**APPLICATION FOR UNITED STATES PLANT PATENT**

**for**

**CHRYSANTHEMUM PLANT NAMED 'ALLEGRO'**

**by**

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This application claims the benefit of U.S. Provisional Application No. 60/421,392, filed October 25, 2002.

#### LATIN NAME OF THE GENUS AND SPECIES

Botanical classification: *Chrysanthemum morifolium*.

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#### VARIETY DENOMINATION

The new *Chrysanthemum* variety denomination is 'Allegro.'

#### BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of *Chrysanthemum* botanically known as *Chrysanthemum morifolium*, and referred to by the cultivar name  
10 'Allegro.'

'Allegro,' identified as 31037, originated from a cross made in a controlled breeding program in Chichester, West Sussex, United Kingdom. The female parent of the new variety is the unpatented variety 'Endurance.' The male parent of the new variety is an undistributed, unpatented seedling identified as 'G5E6.' The new variety  
15 'Allegro' has been asexually reproduced by vegetative cuttings in Chichester, West Sussex, United Kingdom and the distinguishing characteristics are retained through successive generations of asexual reproduction.

#### BRIEF SUMMARY OF THE INVENTION

'Allegro' is a garden type of *Chrysanthemum* plant variety having a domed –  
20 round plant form carrying bright purple decorative flowers.

#### Comparison with Female Parent

Plants of the new *Chrysanthemum* variety 'Allegro' are dissimilar to the parent 'Endurance' in plant habit and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new  
25 *Chrysanthemum* variety 'Allegro' differed from plants of the parent 'Endurance' in the following characteristics.

1. The new variety 'Allegro' produces light purple medium sized decorative flowers whereas the parent 'Endurance' produces deep purple small type decorative flowers.

2. Plants of the new variety 'Allegro' have larger and shorter inflorescence than plants of the parent 'Endurance.'
3. The variety 'Allegro' has a more round shape habit than the parent variety 'Endurance.'

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#### Comparison with Other Varieties

Plants of the new Chrysanthemum variety 'Allegro' are similar to the patented variety 'Debonair' (U.S. Plant Patent No. 5,324) in plant habit and growth rate. However, in side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Allegro' differed from plants of 'Debonair' in the following characteristics.

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1. The new variety 'Allegro' produces a deeper purple colored flower than 'Debonair.'
2. The new variety 'Allegro' produces larger flowers than 'Debonair.'
3. The new variety 'Allegro' has a more round shape than 'Debonair.'

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#### BRIEF DESCRIPTION OF ILLUSTRATION

Typical specimens of the plant and flowers for the new Chrysanthemum variety 'Allegro' are shown in the accompanying digital photograph. The colors shown are as true as possible within the usual limits of this kind of illustration. Figure 1 is a whole plant view of the new variety 'Allegro' grown in a pot. The plant shown in the illustration is 70 days from the commencement of planting outdoors in mid-June.

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#### DETAILED BOTANICAL DESCRIPTION

The following description of the new Chrysanthemum variety 'Allegro' is of plants grown outside, natural season, in Chichester, West Sussex, United Kingdom in the month of June. The cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in the environment such as temperature, length of day and light intensity, without any variance in genotype. The commercial classification of the new variety is a garden Chrysanthemum.

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Plants of the new variety have been grown successfully under temperature conditions averaging about 50°F at night and about 60°F to 75°F during the day under natural light conditions. The plants were grown outdoors in mid-June in 4 liter pots using

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a loamless compost. No growth retardants were used. To produce a commercial product the plants may be pinched once with the center bud removed. The typical container size for commercial growth is 4 liters (8"). It has been observed that the shelf life of the new variety is about 26 days with a response time of about 10 weeks. The new variety is

The new variety may be produced as a pot plant. The following description is with respect to a plant produced as a garden pot plant. In the description of this new Chrysanthemum variety, color values have been taken from the Royal Horticultural Society Colour Chart (R.H.S.C.C.).

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## Plant

Plant type: Pot

Habit: Domed - Round

Height: 40 cm

Width: 60 cm

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Branching characteristics: Upright and Free Branching

Length of Lateral Branches: 15-30 cm

Number of Breaks from Pinch: 7-9

Stem Color: near 137A

Response Time: 70 days natural season

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Vigor: Medium

Shelf Life: 26 days

Disease (Susceptibility/Resistance observed): None observed to date

Pest (Susceptibility/Resistance observed): None observed to date

Growth retardant type and treatment: No treatment necessary

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The plants were grown for 10 weeks in natural season conditions.

Propagation:

*Type:* Vegetative Propagation via Stem Cuttings

*Time to rooting:* 12 days with soil temperatures of 70°F

*Rooting habit:* Fine and Fibrous

## Foliage

Number of Leaves Per Lateral Branch: 11-17

Compound or single: Single

5 Arrangement of Leaves: Alternate

Shape of Leaf: Typically 5 lobed ovate

Size of Leaf: *Width* (cm): 2-4      *Length* (cm): 3-5.5

Leaf Apex: Acute

Base: Truncate

10 Attachment: Petioled

Aspect: Slightly Undulating

Margin: Palmately Lobed

Surface characteristics:      *Top:* Very Slightly Pubescent

*Bottom:* Very Slightly Pubescent

15 Petiole:      *Color:* near 138B

*Length:* 1-1.5 cm

Venation: Net prominent mid vein at underside

*Color: upper side:* near 138B

*under side:* near 138C

20 Color:      Mature Leaf, *upper side:* near 137C; *under side:* near 147C.

Young Leaf, *upper side:* near 137B; *under side:* near 147C.

## Flower

Flower appearance: Matte

Flower type: Decorative

25 Flower form: Domed

Flower shape: Circular

Flowering habit: Cyme

Number of blossoms per branch: 11-15

Inflorescence form: Corymibiform

Depth of fully expanded blossoms: 1.5-2 cm

Diameter of fully expanded blossoms: 2.5-4 cm.

- 5      Phyllaries:    *Number:* 32-35  
                          *Color:* near 136C  
                          *Length:* 4-6 mm  
                          *Width:* 1-1.5 mm  
                          *Texture/Appearance:* Very slightly pubescent
- 10     Pedicel:        *Length:* terminal: 4.5-6 cm; lateral: 7-11 cm  
                          *Color:* near 136C  
                          *Surface:* Slightly pubescent  
                          *Habit:* Slightly curving.  
                          *Strength:* Medium/Strong
- 15     Ray florets:   *Form/Shape:* Reflexing  
                          *Texture/Appearance:* Matte  
                          *Number per flower:* 240-260  
                          *Length:* 0.8-2 cm; *Width:* 2-7 mm  
                          *Apex:* Rounded
- 20                    *Base:* Tapered  
                          *Margin:* Entire
- Disc florets: *Form/Shape:* Cylindrical  
                          *Texture/Appearance:* Shiny  
                          *Number per flower:* 1-5
- 25                    *Length:* 5-6 mm; *Width:* <1 mm  
                          *Diameter of disc:* <1 mm

Fragrance: None

Flower Bud (at onset of color):    *Length:* 5-7 mm  
    *Diameter:* 5-9 mm

30                    *Form/Shape:* Globular

General flower color:

- |    |  |                                  |  |
|----|--|----------------------------------|--|
| 5  | 1.   | Ray florets, <i>upper side</i> : | <i>Immature</i> : near 64B<br><i>Mature</i> : near 64C<br><i>Older/Fading</i> : near 68C |
|    | 2.   | Ray florets, <i>under side</i> : | <i>Immature</i> : near 64B<br><i>Mature</i> : near 64C<br><i>Older/Fading</i> : near 68C |
| 10 | 3.   | Disc florets:                    | <i>Immature</i> : near 68D<br><i>Mature</i> : near 68D<br><i>Older/Fading</i> : near 68D |
|    | 4.   | Bud:                             | 145C   |
| 15 | Flower progression with age: Color fades uniformly with age. |                                  |  |

## Reproductive Organs

Gynoecium present on Ray and Disc florets.

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|----|--|--|
|    | Ray florets per individual flower:       | <i>Pistil number:</i> 100-125 observed |
|    |  | <i>Stigma color:</i> near 144D         |
| 20 |  | <i>Stigma shape:</i> Forked            |
|    |  | <i>Style color:</i> near 144D          |
|    |  | <i>Style length:</i> 3 mm              |
|    | Disc florets per individual flower:      | <i>Pistil number:</i> 1-3              |
|    |  | <i>Stigma color:</i> near 144D         |
| 25 |  | <i>Stigma shape:</i> Forked.           |
|    |  | <i>Style color:</i> near 144D          |
|    |  | <i>Style length:</i> 4 mm              |
|    | Androecium present on Disc florets only. |  |
|    |  | <i>Stamen number:</i> About 5          |
| 30 |  | <i>Anther shape:</i> Cylindrical       |

*Anther color:* near 14C

*Pollen color:* near 12A

*Pollen quantity:* slight

Fruit and Seeds: None observed